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LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and the listing of claims in the

application.

Claims Listing:

1. (Withdrawn) A transmission unit comprising:

an aggregation unit to aggregate in a buffer at least two small messages received from

an upper layer into a packet and to provide said packet to a pending queue; and

a fireout unit to pass packets to a network device by selecting packets from said

pending queue or said buffer depending on whether or not said pending queue is empty.

2. (Withdrawn) A unit according to claim 1 and also comprising a reception monitor to

indicate to fireout unit the status of reception of said packets.

3. (Withdrawn) A unit according to claim 1 and wherein said fireout unit operates at a rate

related to network congestion.

4. (Withdrawn) A unit according to claim 3 and wherein said network congestion may be any

one of the following: transmitter congestion, receiver congestion and congestion of network

elements.

5. (Withdrawn) A transmission unit comprising:

a transmitting network device;

means for adjusting the size of aggregated packets produced by said network device

based at least on network congestion.

6. (Withdrawn) A transmission unit according to claim 5 and wherein said means for

adjusting comprises:

an aggregation unit to aggregate in a buffer at least two small messages received from

an upper layer into a packet and to provide said packet to a pending queue; and

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a fireout unit to pass packets to a network drive, selecting them from said pending queue or said buffer depending on whether or not said pending queue is empty.

7. (Withdrawn) A unit according to claim 6 and also comprising a reception monitor to indicate to fireout unit the status of reception of said packets.

8. (Withdrawn) A unit according to claim 5 and wherein said network congestion may be any one of the following: transmitter congestion, receiver congestion and congestion of network elements.

9. (Withdrawn) A software product comprising:

a computer usable medium having computer readable program code means embodied therein for causing transmission of packets to a network, the computer readable program code means in said software product comprising:

computer readable program code means for causing a computer to aggregate in a buffer at least two small messages received from an upper layer into a packet and to provide said packet to a pending queue; and

computer readable program code means for causing the computer to pass packets to a network drive, selecting them from said pending queue or said buffer depending on whether or not said pending queue is empty.

- 10. (Withdrawn) A product according to claim 9 and also comprising code means for causing a computer to indicate to said second code means the status of reception of said packets.
- 11. (Withdrawn) A product according to claim 9 and wherein said second code means operates at a rate related to network congestion.
- 12. (Withdrawn) A product according to claim 12 and wherein said network congestion may be any one of the following: transmitter congestion, receiver congestion and congestion of network elements.

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queue is empty; and

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13. (Currently Amended) A method for a transmitting network device to minimally delay transmission of short messages, the method comprising:

adjusting the size of aggregated data packets based at least on the congestion of a said transmitting network device, and

transmitting partially aggregated data packets when said transmitting network device has no fully aggregated packets waiting to be transmitted.

14. (Previously Presented) A method according to claim 13 and wherein said adjusting comprises:

aggregating in a buffer at least two small messages received from an upper layer into a packet;

providing fully aggregated packets from said buffer to a pending queue; selecting fully aggregated packets from said pending queue or partially aggregated packets from said buffer depending on whether or not said pending

passing said selected packets to said network device.

- 15. (Previously Presented) A method according to claim 14 and also comprising indicating a reception status for said packets.
- 16. (Original) A method according to claim 14 and wherein said passing operates at a rate related to network congestion.
- 17. (Previously Presented) A method according to claim 16 and wherein said activity of said network device is affected by any one of the following: transmitter congestion, receiver congestion and congestion of network elements.

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18. (Currently Amended) A method <u>for a transmitting network device to minimally</u> <u>delay transmission of short messages, the method comprising:</u>

aggregating in a buffer at least two small messages received from an upper layer of said transmitting network device into a packet;

providing fully aggregated packets from said buffer to a pending queue;

selecting fully aggregated packets from said pending queue or partially aggregated packets from said buffer depending on whether or not said pending queue is empty; and

passing said selected packets to a network <u>interface device</u> for transmission.

- 19. (Previously Presented) A method according to claim 18 and also comprising indicating a reception status for said packets.
- 20. (Canceled) A method according to claim 18 and wherein said passing operates at a rate related to network congestion.
- 21. (Previously Presented) A method according to claim 18 and wherein said activity of said network device is affected by any one of the following: transmitter congestion, receiver congestion and congestion of network elements.